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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,254	11/03/2003	Larry Lee Schumacher	5854-00100	3682
35617 DAFFER MCD	7590 01/27/201 ANIEL LLP	EXAMINER		
P.O. BOX 6849	800	TECKLU, ISAAC TUKU		
AUSTIN, TX 78768			ART UNIT	PAPER NUMBER
			2192	
			MAIL DATE	DELIVERY MODE
			01/27/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/700,254	SCHUMACHER ET AL.				
Office Action Summary	Examiner	Art Unit				
	ISAAC T. TECKLU	2192				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 18 No.	ovember 2009.					
· <u> </u>	action is non-final.					
· <del>_</del>	· <del></del>					
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
• • • • • • • • • • • • • • • • • • • •	)⊠ Claim(s) <u>1-13, and 15-26</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
	6)☐ Claim(s) is/are rejected.					
7)☐ Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-13, and 15-26</u> are subject to restrict	ion and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
·— ·— ·—						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Gee the attached detailed Office action for a list of	or the certified copies not receive	u.				
Attachment(s)	Δ) [ ] Internet   Δ	(DTO 442)				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) U Other:						

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## **DETAILED ACTION**

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## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-13, 15-23; and 18-20, and 25 drawn to managing data in a multi-threaded environment comprising "... executing the dataflow application on said one or more processors in parallel using said execution plan, wherein said executor assigns a separate thread to map processes as a separate thread of execution with data supplied to the system...", classified in class 717, subclass 120.
  - II. Claims 16-17, 24 and 26 drawn to transforming data in a multi-threaded parallel processing comprising "... each of said plurality of linked map process is executed on its allocated thread substantially in parallel as part of a single process, and said data resides in memory accessible to each of said plurality of linked map process...", classified in class 717, subclass 149.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions I, and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination I has separate utility such as managing data in a multi-threaded environment comprising "... executing the dataflow application on said one or more processors in parallel using said execution plan, wherein said executor assigns a separate thread to map processes as a separate thread of execution with data supplied to the system...", subcombination II has separate utility such as transforming data in a multi-threaded parallel processing comprising "... each of said plurality of linked map process is executed on its allocated thread substantially in parallel as part of a single

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process, and said data resides in memory accessible to each of said plurality of linked map process...". See MPEP § 806.05(d).

- 3. The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.
- 4. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above <u>and</u> there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:
  - (a) the inventions have acquired a separate status in the art in view of their different classification;
  - (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
  - (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
  - (d) the prior art applicable to one invention would not likely be applicable to another invention;

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- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.
- 5. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.
- 6. The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.
- 7. If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.
- 8. Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.
- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any

amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ISAAC T. TECKLU whose telephone number is (571) 272-7957. The examiner can normally be reached on M-F 9:00A - 5:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Isaac T Tecklu/ Examiner, Art Unit 2192 Application/Control Number: 10/700,254

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